

# Publications

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### Vaccination status of patients with primary immunodeficiencies in Germany-a multicentric epidemiologic analysis

Schwaneck EC, Harasim AS, Tony HP, Gawlik M, Witte T, Joos S, Gernert M, Schmalzing M, Morbach H, Fröhlich M, Krone M

Z Rheumatol. 2024 Aug 22. English. doi: 10.1007/s00393-024-01549-0. Epub ahead of print. PMID: 39174715.

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### Intestinal B cells license metabolic T-cell activation in NASH microbiota/antigen-independently and contribute to fibrosis by IgA-FcR signalling

Kotsiliti E, Leone V, Schuehle S, Govaere O, Li H, Wolf MJ, Horvatic H, Bierwirth S, Hundertmark J, Inverso D, Zizmare L, Sarusi-Portuguez A, Gupta R, O'Connor T, Giannou AD, Shiri AM, Schlesinger Y, Beccaria MG, Rennert C, Pfister D, Öllinger R, Gadjalova I, Ramadori P, Rahbari M, Rahbari N, Healy ME, Fernández-Vaquero M, Yahoo N, Janzen J, Singh I, Fan C, Liu X, Rau M, Feuchtenberger M, Schwaneck E, Wallace SJ, Cockell S, Wilson-Kanamori J, Ramachandran P, Kho C, Kendall TJ, Leblond AL, Keppler SJ, Bielecki P, Steiger K, Hofmann M, Rippe K, Zitzelsberger H, Weber A, Malek N, Luedde T, Vucur M, Augustin HG, Flavell R, Parnas O, Rad R, Pabst O, Henderson NC, Huber S, Macpherson A, Knolle P, Claassen M, Geier A, Trautwein C, Unger K, Elinav E, Waisman A, Abdullah Z, Haller D, Tacke F, Anstee QM, Heikenwalder M

J Hepatol. 2023 Aug;79(2):296-313. doi: 10.1016/j.jhep.2023.04.037. Epub 2023 May 22. PMID: 37224925; PMCID: PMC10360918

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### Patient-reported outcomes provide evidence for increased depressive symptoms and increased mental impairment in giant cell arteritis

Froehlich M, Zahner A, Schmalzing M, Gernert M, Strunz PP, Hueper S, Portegys J, Schwaneck EC, Gadeholt O, Kübler A, Hewig J, Ziebell P

Front Med (Lausanne). 2023 May 12;10:1146815. doi: 10.3389/fmed.2023.1146815. eCollection 2023.

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### Apps in der Rheumatologie: Bedarf es einer App in der Therapie der axialen Spondyloarthritis?

Strunz PP, Maire ML, Heusinger T, Hammel L, Gernert M, Schwaneck EC, Callhoff J, Portegys J, Schmalzing M, Tony HP, Froehlich M

Z Rheumatol. 2023 Apr;82(3):256-261. German. doi: 10.1007/s00393-021-01104-1. Epub 2021 Oct 7. Erratum in: Z Rheumatol. 2021 Dec;80(Suppl 2):76. doi: 10.1007/s00393-021-01121-0. PMID: 34618212; PMCID: PMC10076400.

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### Calprotectin (S100A8/S100A9) detects inflammatory activity in rheumatoid arthritis patients receiving tocilizumab therapy.

Gernert M, Schmalzing M, Tony HP, Strunz PP, Schwaneck EC, Fröhlich M.

Arthritis Res Ther. 2022 Aug 19;24(1):200. doi: 10.1186/s13075-022-02887-7. PMID: 35986420

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### Lymphocyte subsets in the peripheral blood are disturbed in systemic sclerosis patients and can be changed by immunosuppressive medication

Gernert M, Tony HP, Schwaneck EC, Gadeholt O, Fröhlich M, Portegys J, Strunz PP, Schmalzing M

Rheumatol Int. 2022 Aug;42(8):1373-1381. doi: 10.1007/s00296-021-05034-8. Epub 2021 Oct 25. PMID: 34694439; PMCID: PMC9287253.

## Immunosuppressive Therapy After Autologous Hematopoietic Stem Cell Transplantation in Systemic Sclerosis Patients-High Efficacy of Rituximab

Gernert M, Tony HP, Fröhlich M, **Schwaneck EC**, Schmalzing M

Front Immunol. 2022 Jan 17;12:817893. doi: 10.3389/fimmu.2021.817893. eCollection 2021.

PMID: 35111167

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## Erratum zu: Apps in der Rheumatologie

Strunz PP, Maire ML, Heusinger T, Hammel L, Gernert M, **Schwaneck EC**, Callhoff J, Portegys J, Schmalzing M, Tony HP, Froehlich M

Z Rheumatol. 2021 Dec;80(Suppl 2):76. German. doi: 10.1007/s00393-021-01121-0. Erratum for: Z Rheumatol. 2023

Apr;82(3):256-261. doi: 10.1007/s00393-021-01104-1. PMID: 34748079; PMCID: PMC10153493.

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## High Prevalence of Genital Human Papillomavirus Infection in Patients With Primary Immunodeficiencies.

Gernert M, Kiesel M, Fröhlich M, Renner R, Strunz PP, Portegys J, Tony HP, Schmalzing M, **Schwaneck EC**.

Front Immunol. 2021 Nov 16;12:789345. doi: 10.3389/fimmu.2021.789345. eCollection 2021.

PMID: 34868076

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## Whole-Body [18F]FDG PET/CT Can Alter Diagnosis in Patients with Suspected Rheumatic Disease.

Fröhlich M, Serfling S, Higuchi T, Pomper MG, Rowe SP, Schmalzing M, Tony HP, Gernert M, Strunz PP, Portegys J, **Schwaneck EC**, Gadeholt O, Weich A, Buck AK, Bley TA, Guggenberger KV, Werner RA.

Diagnostics (Basel). 2021 Nov 9;11(11):2073. doi: 10.3390/diagnostics11112073.

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## Clonal expansion of large granular lymphocytes in patients with spondyloarthritis and psoriatic arthritis treated with TNF $\alpha$ inhibitors

**Schwaneck EC**, Renner R, Tony HP, Weber A, Geissinger E, Gernert M, Fröhlich M, Schmalzing M, Gadeholt O

Rheumatol Int. 2021 Nov;41(11):1979-1986. doi: 10.1007/s00296-021-04872-w. Epub 2021 May 15. PMID: 33991197.

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## Initial presenting manifestations in 16,486 patients with inborn errors of immunity include infections and noninfectious manifestations.

Thalhammer J, Kindle G, Nieters A, Rusch S, Seppänen MRJ, Fischer A, Grimbacher B, Edgar D, Buckland M, Mahlaoui N, Ehl S; European Society for Immunodeficiencies Registry Working Party.

J Allergy Clin Immunol. 2021 Nov;148(5):1332-1341.e5. doi: 10.1016/j.jaci.2021.04.015. Epub 2021 Apr 23.

PMID: 33895260

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## Immunological Adverse Events After Autologous Hematopoietic Stem Cell Transplantation in Systemic Sclerosis Patients

Strunz PP, Froehlich M, Gernert M, **Schwaneck EC**, Fleischer A, Pecher AC, Tony HP, Henes JC, Schmalzing M

Front Immunol. 2021 Sep 3;12:723349. doi: 10.3389/fimmu.2021.723349. eCollection 2021. PMID: 34539659

## Use of Complementary and Alternative Medicine in Patients with Primary Immunodeficiency: a Multicentric Analysis of 101 Patients

Harasim AS, Krone M, Tony HP, Gawlik M, Witte T, Joos S, Gernert M, Schmalzing M, Morbach H, Schwaneck EC

J Clin Immunol. 2021 Apr;41(3):585-594. doi: 10.1007/s10875-020-00955-8. Epub 2021 Jan 6. PMID: 33403468

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## Sustained improvement in work outcomes in employed patients with rheumatoid arthritis during 2 years of adalimumab therapy: an observational cohort study.

Behrens F, Tony HP, Koehm M, Schwaneck EC, Gnann H, Greger G, Burkhardt H, Schmalzing M.

Clin Rheumatol. 2020 Sep;39(9):2583-2592. doi: 10.1007/s10067-020-05038-y. Epub 2020 Mar 23. PMID: 32206973

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## Low B cell counts as risk factor for infectious complications in systemic sclerosis after autologous hematopoietic stem cell transplantation.

Gernert M, Tony HP, Schwaneck EC, Fröhlich M, Schmalzing M.

Arthritis Res Ther. 2020 Aug 8;22(1):183. doi: 10.1186/s13075-020-02255-3. PMID: 32771029

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## Correction to: Sustained improvement in work outcomes in employed patients with rheumatoid arthritis during 2 years of adalimumab therapy: an observational cohort study.

Behrens F, Tony HP, Koehm M, Schwaneck EC, Gnann H, Greger G, Burkhardt H, Schmalzing M.

Clin Rheumatol. 2020 Aug;39(8):2491. doi: 10.1007/s10067-020-05168-3. PMID: 32474886

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## Autologous Stem Cell Transplantation in Common Variable Immunodeficiency: A Case of Successful Treatment of Severe Refractory Autoimmune Encephalitis

Froehlich M, Schwaneck EC, Gernert M, Gadeholt O, Strunz PP, Morbach H, Tony HP, Schmalzing M

Front Immunol. 2020 Jun 25;11:1317. doi: 10.3389/fimmu.2020.01317. eCollection 2020. PMID: 32670291

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## Does concomitant methotrexate confer clinical benefits in patients treated with prior biologic therapy?

Schmalzing M, Behrens F, Schwaneck EC, Koehm M, Greger G, Gnann H, Burkhardt H, Tony HP

Medicine (Baltimore). 2020 May;99(19):e20201. doi: 10.1097/MD.00000000000020201. PMID: 32384515; PMCID: PMC7220320.

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## Sexual function in German women with systemic sclerosis compared to women with systemic lupus erythematosus and evaluation of a screening test.

Schmalzing M, Nau LF, Gernert M, Froehlich M, Schwaneck EC, Pecher AC, Saur S, Tony HP, Henes M, Henes J.

Clin Exp Rheumatol. 2020 May-Jun;38 Suppl 125(3):59-64. Epub 2020 Apr 14. PMID: 32301433

## Osteoporosis therapy in patients with inflammatory rheumatic diseases and osteonecrosis of the jaw

Schwaneck EC, Streit A, Krone M, Hartmann S, Müller-Richter U, Kübler AC, Gadeholt O, Schmalzing M, Tony HP, Brands RC

Z Rheumatol. 2020 Mar;79(2):203-209. English. doi: 10.1007/s00393-019-0606-y. PMID: 30796524.

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## T cells, natural killer cells, and $\gamma\delta$ T cells in a large patient cohort with rheumatoid arthritis: influence of age and anti-rheumatic therapy

Schwaneck EC, Renner R, Junker L, Tony HP, Kleinert S, Gernert M, Schmalzing M, Gadeholt O

Scand J Rheumatol. 2020 Jan;49(1):8-12. doi: 10.1080/03009742.2019.1634755. Epub 2019 Sep 26. PMID: 31556339.

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## Use of a „critical difference“ statistical criterion improves the predictive utility of the Health Assessment Questionnaire-Disability Index score in patients with rheumatoid arthritis.

Behrens F, Koehm M, Schwaneck EC, Schmalzing M, Gnann H, Greger G, Tony HP, Burkhardt H.

BMC Rheumatol. 2019 Dec 10;3:51. doi: 10.1186/s41927-019-0095-2. eCollection 2019. PMID: 31867564

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## [Recurrent infections of the upper aerodigestive tract in patients with primary immunodeficiency]

Ickrath P, Morbach H, Schwaneck EC, Gehrke T, Scherzad A, Hagen R, Hackenberg S.

HNO. 2019 Nov;67(11):819-824. doi: 10.1007/s00106-019-0683-x. PMID: 31119330

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## Addition or removal of concomitant methotrexate alters adalimumab effectiveness in rheumatoid arthritis but not psoriatic arthritis.

Behrens F, Koehm M, Schwaneck EC, Schmalzing M, Wittig BM, Gnann H, Greger G, Tony HP, Burkhardt H.

Scand J Rheumatol. 2019 Sep;48(5):375-382. doi: 10.1080/03009742.2019.1600717. Epub 2019 Jul 16. PMID: 31311386

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## The German National Registry of Primary Immunodeficiencies (2012-2017).

El-Helou SM, Biegner AK, Bode S, Ehl SR, Heeg M, Maccari ME, Ritterbusch H, Speckmann C, Rusch S, Scheible R, Warnatz K, Atschekzei F, Beider R, Ernst D, Gerschmann S, Jablonka A, Mielke G, Schmidt RE, Schürmann G, Sogkas G, Baumann UH, Klemann C, Viemann D, von Bernuth H, Krüger R, Hanitsch LG, Scheibenbogen CM, Wittke K, Albert MH, Eichinger A, Hauck F, Klein C, Rack-Hoch A, Sollinger FM, Avila A, Borte M, Borte S, Fasshauer M, Hauenherm A, Kellner N, Müller AH, Ülzen A, Bader P, Bakhtiar S, Lee JY, Heß U, Schubert R, Wölke S, Zielen S, Ghosh S, Laws HJ, Neubert J, Oommen PT, Hönig M, Schulz A, Steinmann S, Schwarz K, Dückers G, Lamers B, Langemeyer V, Niehues T, Shai S, Graf D, Müglichs C, Schmalzing MT, Schwaneck EC, Tony HP, Dirks J, Haase G, Liese JG, Morbach H, Foell D, Hellige A, Wittkowski H, Masjosthusmann K, Mohr M, Geberzahn L, Hedrich CM, Müller C, Rösen-Wolff A, Roesler J, Zimmermann A, Behrends U, Rieber N, Schauer U, Handgretinger R, Holzer U, Henes J, Kanz L, Boesecke C, Rockstroh JK, Schwarze-Zander C, Wasmuth JC, Dilloo D, Hülsmann B, Schönberger S, Schreiber S, Zeuner R, Ankermann T, von Bismarck P, Huppertz HI, Kaiser-Labusch P, Greil J, Jakoby D

Front Immunol. 2019 Jul 19;10:1272. doi: 10.3389/fimmu.2019.01272. eCollection 2019.

PMID: 31379802

## Power-Doppler perfusion phenotype in RA patients is dependent on anti-citrullinated peptide antibody status, not on rheumatoid factor.

Gadeholt O, Feuchtenberger M, Wech T, **Schwaneck EC**.

Rheumatol Int. 2019 Jun;39(6):1019-1025. doi: 10.1007/s00296-019-04256-1. Epub 2019 Feb 26.

PMID: 30806731

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## Autologous hematopoietic stem cell transplantation in systemic sclerosis induces long-lasting changes in B cell homeostasis toward an anti-inflammatory B cell cytokine pattern.

Gernert M, Tony HP, **Schwaneck EC**, Gadeholt O, Schmalzing M.

Arthritis Res Ther. 2019 Apr 29;21(1):106. doi: 10.1186/s13075-019-1889-8.

PMID: 31036055

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## Prevalence and Characteristics of Persistent Clonal T Cell Large Granular Lymphocyte Expansions in Rheumatoid Arthritis: A Comprehensive Analysis of 529 Patients.

**Schwaneck EC**, Renner R, Junker L, Einsele H, Gadeholt O, Geissinger E, Kleinert S, Gernert M, Tony HP, Schmalzing M.

Arthritis Rheumatol. 2018 Dec;70(12):1914-1922. doi: 10.1002/art.40654. Epub 2018 Oct 30.

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## Management of anti-HBc-positive patients with rheumatic diseases treated with disease-modifying antirheumatic drugs-a single-center analysis of 2054 patients.

**Schwaneck EC**, Krone M, Kreissl-Kemmer S, Weißbrich B, Weiss J, Tony HP, Gadeholt O, Schmalzing M, Geier A.

Clin Rheumatol. 2018 Nov;37(11):2963-2970. doi: 10.1007/s10067-018-4295-8. Epub 2018 Sep 20.

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## Minimal disease activity is a stable measure of therapeutic response in psoriatic arthritis patients receiving treatment with adalimumab.

Behrens F, Koehm M, **Schwaneck EC**, Schmalzing M, Gnann H, Greger G, Tony HP, Burkhardt H.

Rheumatology (Oxford). 2018 Nov 1;57(11):1938-1946. doi: 10.1093/rheumatology/key203.

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## Tocilizumab in Large Vessel Vasculitis – Different Routes of Administration

Schmalzing M, Gadeholt O, Gernert M, Tony HP, **Schwaneck EC**

Open Rheumatol J. 2018 Aug 31;12:152-159. doi: 10.2174/1874312901812010152. PMID: 30258504; PMCID: PMC6128017.

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## Kinderwunsch bei Lupus erythematoses – eine medizinische Herausforderung

Grän F, **Schwaneck EC**, Rehn M, Strate A, Goebeler M, Benoit S

J Dtsch Dermatol Ges. 2018 Jul;16(7):913-916. doi: 10.1111/ddg.13577\_g. PMID: 29989370.

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## Pregnancy and lupus erythematosus – a therapeutic challenge

Grän F, **Schwaneck EC**, Rehn M, Strate A, Goebeler M, Benoit S

J Dtsch Dermatol Ges. 2018 Jul;16(7):913-916. doi: 10.1111/ddg.13577. Epub 2018 Jul 4. PMID: 29972730.

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Schmalzing M, Gadeholt O, Gernert M, Tony HP, Schwaneck EC

Open Rheumatol J, 2018 Aug 31;12:152-159, doi: 10.2174/1874312901812010152.

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J Dtsch Dermatol Ges, 2018 Jul;16(7):913-916, doi: 10.1111/ddg.13577.

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## Association of Improvement in Pain With Therapeutic Response as Determined by Individual Improvement Criteria in Patients With Rheumatoid Arthritis

Scharbatke EC, Behrens F, Schmalzing M, Koehm M, Greger G, Gnann H, Burkhardt H, Tony HP

Arthritis Care Res (Hoboken). 2016 Nov;68(11):1607-1615.

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## Anti-CCP status determines the power Doppler oscillation pattern in rheumatoid arthritis: a prospective study

Gadeholt O, Wech T, Schuh S, Scharbatke EC, Ostermeier E, Tony HP, Schmalzing M

Rheumatol Int. 2016 Dec;36(12):1671-1675.

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## Does Concomitant Methotrexate with Adalimumab Influence Treatment Outcomes in Patients with Psoriatic Arthritis? Data from a Large Observational Study

Behrens F, Koehm M, Arndt U, Wittig BM, Greger G, Taçi D, Scharbatke EC, Tony HP, Burkhardt H

J Rheumatol. 2016 Mar;43(3):632-9.

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## The impact of prior biologic therapy on adalimumab response in patients with rheumatoid arthritis

Feuchtenberger M, Kleinert S, Scharbatke EC, Gnann H, Behrens F, Wittig BM, Greger G, Tony HP

Clin Exp Rheumatol. 2015 May-Jun;33(3):321-9.

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## Development and Validation of a New Disease Activity Score in 28 Joints–Based Treatment Response Criterion for Rheumatoid Arthritis

Behrens F, Tony HP, Alten R, Kleinert S, Scharbatke EC, Köhm M, Gnann H, Tams J, Greger G, Burkhardt H

Arthritis Care Res. 2013;65:1608–1616.

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## Vaccination survey in patients with rheumatoid arthritis: a cross-sectional study

Feuchtenberger M, Kleinert S, Schwab S, Roll P, Scharbatke EC, Ostermeier E, Voll RE, Schäfer A, Tony HP

Rheumatol Int. 2011 Feb 15.